

Wayne Padgett

Wasatch Ecology, LLC

2015 – 2017 - Salt Lake City, Utah

As owner of Wasatch Ecology, LLC from 2015 to 2017 I was contracted by the Intermountain Region of the U.S. Forest Service in 2015-2016 to research and write reports evaluating the current and potential effects of climate change on nonforest vegetation and on wildland fire for those lands in the western United States. These reports were included in *General Technical Report 375, Climate Change Vulnerability and Adaptation in the Intermountain Region, Vols. 1 & 2* (published 2018). I was lead author on *Chapter 7: Effects of Climate Change on Nonforest Vegetation*, as well as the section in *Chapter 8: Effects of Climate Change on Ecological Disturbances* focused on *Wildland Fire*. These volumes are available on the Intermountain Adaptability Partners web page (<http://www.adaptationpartners.org/iap/>). The goals of this GTR were to:

- Increase climate change awareness;
- Assess the vulnerability of natural resources and ecosystem services to climate change; and
- Develop science-based adaptation strategies that can be used by national forests to understand and mitigate the effects of climate change.

Bureau of Land Management

January 2009 – September 2013 (Retirement) – Salt Lake City, Utah

As the first Colorado Plateau Native Plant Program Coordinator, I was responsible for overseeing the research and development of locally adapted native plant materials for restoration efforts on the Colorado Plateau. This collaborative effort included other federal, state, and local governments, universities and non-governmental organizations. Emphasis was also placed on improving opportunities for privately-owned, native seed nurseries and native seed collectors. Our goal was to increase supply through increased demand of native plant materials necessary for the restoration of ecosystem resiliency and function and improve the capability of landscapes to better respond to the effects of climate change.

US Forest Service - 1983 –2009

Oct 2006-Jan 2009 – Washington Office, Washington, DC

As ecologist in the Washington Office of the U.S. Forest Service, I was working to update the national rangelands assessment, inventory, and monitoring handbook. I was the US Forest Service staff working on the development of the first interagency (NRCS, USFS, & BLM) ecological site manual, and was also involved in the finalization of the 2008 update of the Federal Geographic Data Committee (FGDC) National Vegetation Classification Standard. I assisted with the national Research Natural Areas program. I was the Washington liaison for a team of Regional Ecologists from each of the nine Regions of the Agency.

Sep 1991-Sep 2006 – Wasatch-Cache National Forest

I worked as the forest ecologist on the Wasatch-Cache (now Uinta-Wasatch-Cache) National Forest with responsibilities for all issues related to landscape ecology. My work included evaluating the effects of any projects on vegetation ecology as well as leading the monitoring efforts of the rangeland program. I provided direction for use of native plant materials for all restoration efforts across the forest. I was also responsible for

rare plant inventories and monitoring, and evaluating any potential project impacts to those species. From 1998-2003 I was vegetation ecology and rare plant lead for forest plan revision.

June 1983-Sep 1991 – Intermountain Regional Office

I lead the field sampling and development of riparian community type classifications for national forest lands in southern Idaho, western Wyoming, Utah, Nevada, and portions of eastern California (Intermountain Region, U.S. Forest Service). I worked for a period as assistant to the regional ecologist, primarily focused on training field crews on methods developed for assessment, inventory, and monitoring of riparian ecological conditions throughout the region.

The Nature Conservancy

Jun 1982 – Dec 1982 - Southern Oregon

As Riparian Ecologist, I established long-term monitoring sites on the newly-acquired Sycan Marsh Preserve, which was formerly owned by the ZX Ranch in southern Oregon. This data provided a baseline for evaluating livestock grazing impacts on this area with large wetland ecosystems

Henningson, Durham, and Richardson Consulting

Sep 1981 – Jan 1982 - Santa Barbara, California

I was one of two vegetation ecologists studying the effects of the proposed MX Missile Project on plant communities in eastern Nevada and western Utah. I began this job only months before it was cancelled by President Reagan in November of 1981. I continued working for a short period after that while the company tried to obtain new contracts.

University of California, Davis

Jul 1975 – Aug 1977 - El Centro, California

As Research Staff Associate, I was involved with at the UC, Davis Agriculture Experiment Station in the Imperial Valley of southern California on a study of the effects of increasing salinity of Colorado River water on agricultural products. Using sprinkler irrigation, we added salts to the irrigation water to simulate expected increases and included crops such as alfalfa, sorghum, and broccoli.

Education

Master of Science, Rangeland Ecology with Minor in Soil Sciences, Oregon State University, 1981
Bachelor of Science Degree, Biological Sciences, University of California, Davis, 1975

Professional Affiliations

Current member of Board of Directors for Utah Native Plant Society

Past member of Ecological Society of America, Botanical Society of America, Natural Areas Association, and Society for Range Management

Select Publications

- Manning, M.E. & Padgett, Wayne. (1995). **Riparian community type classification for the Humboldt and Toiyabe National Forests, Nevada and eastern California.** Forest Service, Intermountain Region.
- Padgett, W.; Reeves, M.C.; Kitchen, S.G.; Tart, D.L.; Chambers, J.C.; Howell, C.; Manning, M.E.; and Proctor, J.G. (2018). **Chapter 7: Effects of Climate Change on Nonforest Vegetation.** In: Halofsky, Jessica E.; Peterson, David L.; Ho, Joanne J.; Little, Natalie, J.; Joyce, Linda A., eds. Climate change vulnerability and adaptation in the Intermountain Region [Part 2]. Gen. Tech. Rep. RMRS-GTR-375. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 165-197.
- Padgett, W.; Schrader, B.; Manning, M.; Tear, T. (2012). **Development of Historical Ecology Concepts and their Application to Resource Management and Conservation.** Historical Environmental Variation in Conservation and Natural Resource Management. 19-28. In Wiens, J. A., Haywood, G. D., Safford, H. D., & Giffen, C. M. (2012). *Historical environmental variation in conservation and natural resource management.* Chichester: Wiley-Blackwell.
- Padgett, Wayne & Wood, Troy. (2011). **Colorado Plateau Native Plant Program: A plant materials development program.** Annual Colorado Plateau Native Plant Program Annual Meeting, Page, AZ.
- Padgett, W. G., Youngblood, A. P., Winward, A. H., & United States. (1990). ***Riparian community type classification of Utah and southeastern Idaho.*** Ogden, Utah: U.S. Dept. of Agriculture, Forest Service, Intermountain Region.
- Wood, E. T., Doherty, K. & Padgett, W. (2015). **Development of Native Plant Materials for Restoration and Rehabilitation of Colorado Plateau Ecosystems.** Natural Areas Journal. 35. 134-150.
- Youngblood, A. P., Padgett, W. G., Winward, A. H., & United States. (1985). ***Riparian community type classification of eastern Idaho - western Wyoming.*** Ogden, Utah: U.S. Dept. of Agriculture, Forest Service, Intermountain Region.